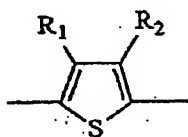
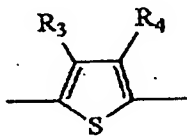


## ABSTRACT

A  $\pi$ -conjugated compound has rings represented by Formulae (I) and (II), an odd number of rings being interposed between the rings of Formula (I), and an odd number of rings being interposed between the rings of Formula (II):



(I)



(II)

where  $R_1$  and  $R_2$  are hydrogen or a substituted or unsubstituted linear, cyclic, or branched alkyl group of 1 to 20 carbon atoms, at least one of  $R_1$  and  $R_2$  being not hydrogen; and  $R_3$  and  $R_4$  are hydrogen or a substituted or unsubstituted linear, cyclic, or branched perfluoroalkyl group of 1 to 20 carbon atoms.